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## Cement formulation

## Bibliographic data

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Applicant(s): JAMES HARDIE RES PTY LTD

## Classification:

- International: C04B28/18; C04B28/20; C04B38/00; C04B38/08; C04B40/00; C04B28/00; C04B38/00; C04B38/08; C04B40/00

- European:

Application number: AU200000011373D 19991013

Priority number(s): AU1998PP06501; 19981014; WQ1999AU00875 19991013; AU200000011373 19991013

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Abstract not available for AU 1137300 (A)

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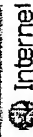
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Derwent Title: **Formulation for shaped cementitious article products for mines and industrial plants, having reduced respirable silica dust content comprises cementitious and siliceous materials with calcium silicate hydrate as low bulk density modifier**

Original Title: **WO0021901A1: CEMENT FORMULATION**

Assignee: **HARDIE RES PTY LTD JAMES Non-standard company**

Inventor: **BLACK A; CHEN H; GLEESON J; KIRBY N; MONEY E; PARKS S;**

Accession/Update: **2000-339294 / 200104**

IPC Code: **C04B 28/18 ; C04B 28/20 ; C04B 38/00 ; C04B 38/08 ; C04B 40/00 ;**

Derwent Classes: **A93; L02;**

Manual Codes: **A12-R01A(Concrete, cement, gypsum, mortar compositions and boards) , L02-C06(Cement complex for special purposes)**

Derwent Abstract: (WO0021901A) **Novelty** - A formulation for producing a shaped cementitious article containing a reduced amount of respirable size silica particles, a cementitious material, a siliceous material and sufficient low bulk density modifier to reduce the density to below 1.2 g/cm<sup>3</sup>.

**Detailed Description** - INDEPENDENT CLAIMs are also included for: (1) formulations of cementitious and siliceous materials containing calcium silicate hydrate as a low bulk density material which have either a reduced respirable particle size silica content or a reduced propensity to release respirable silica; (2) a method of producing a cementitious article having a reduced content of respirable silica or a reduced propensity to release respirable silica comprising (i) forming an aqueous slurry of cementitious and siliceous materials, and sufficient low density modifier to give a density lower than 1.2 g/cm<sup>3</sup> in the article, (ii) forming a green shaped article, and curing the article.

**Use** - The formulation is used to manufacture products for mines and industrial plants and which are subjected to cutting by e.g. a circular saw.

**Advantage** - The presence of the pre-reacted calcium silicate hydrate reduces the generation of respirable silica by mechanisms including (i) providing silica in the pre-reacted form, (ii) modifying the cutting action such that the cut is between the hard silica particles and not through them, and (iii) the cut surface is smooth so as to reduce the surface area from which the dust is released.

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Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
<b>WO0021901A1 *</b>	2000-04-20	200029	30	English	C04B 28/18

(N) AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT



Des. States: LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(R) AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL  
OA PT SD SE SL SZ TZ UG ZW

Local appls.: WO1999AU0000875 Filed:1999-10-13 (99WO-AU00875)

→ ☒ AU0011373A = 2000-05-01 200036 English C04B 28/18

Local appls.: Based on WO00021901 (WO 200021901)  
00192000U-00113 Filed:1999-10-13 (2000AU-0011373)

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Legal Status:

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First Claim:

[Show all claims](#) 1.A formulation for producing a shaped cementitious article having a reduced respirable size silica particle content, said formulation comprising a cementitious material, a siliceous material and a low bulk density modifier in a quantity sufficient to provide a density of the resultant cementitious article of lower than 1.2 g/cm<sup>3</sup>. †

Priority Number:

Application Number	Filed	Original Title
AU1998000006501	1998-10-14	CEMENT FORMULATION

Extended  
Polymer Index:

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Unlinked  
Registry Numbers:

1550U 1694U

Related  
Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C2000-102875	C		
1 item found			

Title Terms:

FORMULATION SHAPE CEMENTED ARTICLE PRODUCT MINE INDUSTRIAL  
PLANT REDUCE RESPIRATION SILICA DUST CONTENT COMPRISE  
CEMENTED SILICEOUS MATERIAL CALCIUM SILICATE HYDRATE LOW BULK  
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